

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): Device for processing the surface of a container, ~~of the type in which the processing is accomplished by a low-pressure plasma, by excitation of a reaction fluid with microwave type electromagnetic waves, and of the type in which the container is placed in an enclosure (12) made of a conductive material, inside of which enclosure, the microwaves are introduced by means of a coupling device,~~

characterized in that the enclosure (12) is a cylinder ~~generated by rotation provided so that its central axis is around~~ a main axis (A1) of the container (24), in that the coupling device has a wave guide tunnel (15) which extends in a direction ~~appreciably~~ substantially perpendicular to the axis (A1) of the enclosure and which ~~opens into~~ is provided within a window of one wall thereof of the enclosure in the shape of a window which, in projection said wave guide tunnel projected on a plane tangent to the enclosure, is rectangular in shape, the smaller dimension of which rectangle corresponds to its dimension along the direction of the axis of the enclosure, and in that the inside diameter of the enclosure (12) is such that the microwaves are propagated in the enclosure primarily according to a mode in which the electrical field, resulting from the propagation of the microwaves, has an axial symmetry with respect to the central axis of the enclosure ~~generated by rotation.~~

2. (original): Device according to claim 1, characterized in that, when the microwaves are introduced into the enclosure (12) in the absence of a container (24), the variation of intensity of the electrical field has two maximums on one radius of the enclosure.

3. (original): Device according to claim 2, characterized in that the microwaves have a frequency of 2.45 GHz, and in that the inside diameter of the enclosure (12) is between 213 and 217 mm.

4. (original): Device according to claim 1, characterized in that, when the microwaves are introduced into the enclosure in the absence of a container, the variation of intensity of the electrical field has three maximums on one radius of the enclosure.

5. (original): Device according to claim 4, characterized in that the microwaves have a frequency of 2.45 GHz and the inside diameter of the enclosure (12) is between 334 and 340 mm.

6. (original): Device according to claim 1, characterized in that, when the microwaves are introduced into the enclosure in the absence of a container, the variation of intensity of the electrical field has four maximums on one radius of the enclosure.

7. (original): Device according to claim 6, characterized in that the microwaves have a frequency of 2.45 GHz and the inside diameter of the enclosure is between 455 and 465 mm.

8. (previously presented): Device according to claim 1, characterized in that the wave guide tunnel (15) has a rectangular cross section.

9. (currently amended): Device according to claim 8, characterized in that the microwaves have a frequency of 2.45 GHz, and the dimensions of the cross section of the wave guide tunnel (15) are ~~approximately~~substantially 43 mm along the direction of the axis (A1) of the enclosure (12) and ~~approximately~~substantially 86 mm along the perpendicular direction.

10. (previously presented): Device according to claim 1, characterized in that the reaction fluid is introduced into the container (24) in such a way that the processing is applied to the inner face of the container.

11. (previously presented): Device according to claim 1, characterized in that the reaction fluid is introduced into the enclosure (12), outside the container (24), in such a way that the processing is applied to the outer face of the container.

12. (previously presented): Device according to claim 1, characterized in that inside the enclosure (12), a cavity (18) is delimited by a wall (10) made of a material that is appreciably transparent to the microwaves, and the container (24) is received inside the cavity (18).

13. (previously presented): Device according to claim 1, characterized in that the treatment includes a step in which a material is deposited by low-pressure plasma.